

Billy Charlton Director of Data, PSRC

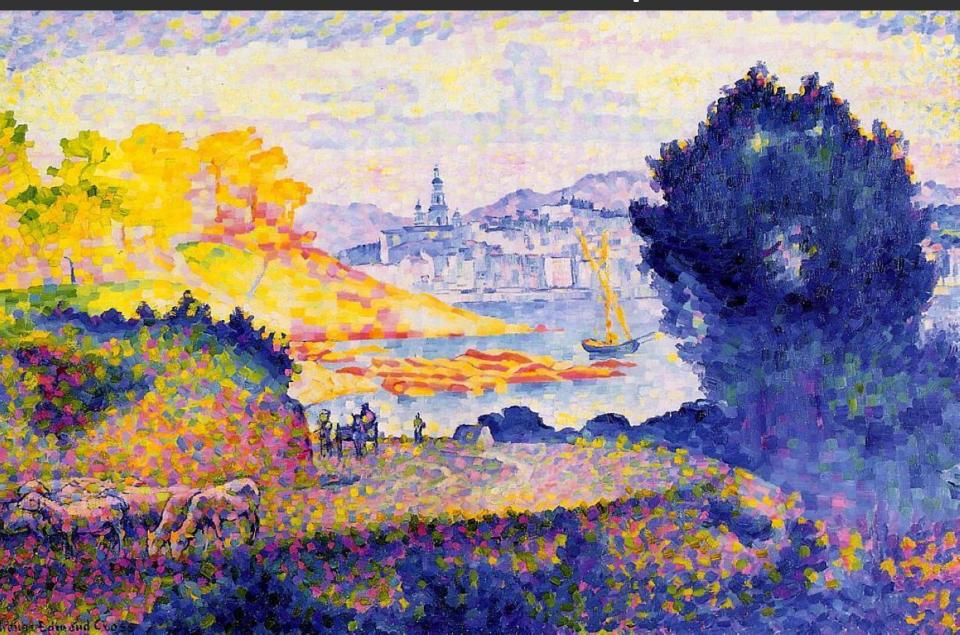
Presented to Washington State Transportation Commission May 19th, 2015

Puget Sound Regional Council PSRC

- Background & methodology
- Data & findings
- Coming up next

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The sum of our choices creates a picture of travel



Travel surveys at PSRC



STUDY OVERVIEW

This study has 2 parts

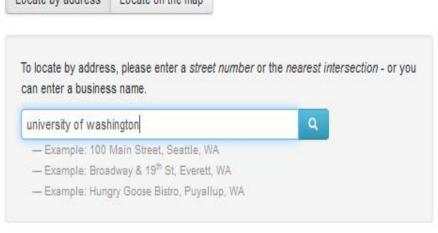
1
HOUSEHOLD
INFO SURVEY

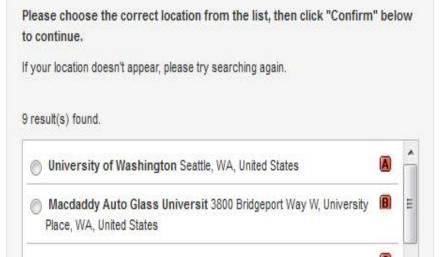
TRAVEL DIARY
SURVEY

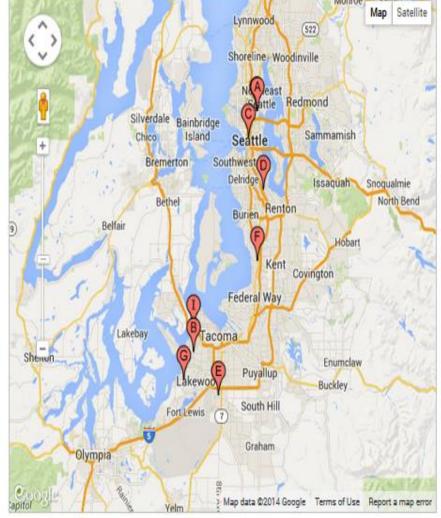
When do I take the survey?	As soon as convenient	After the day of your assigned travel				
Who takes the survey?	You	All adults (an adult should also report trips for children under 18)				
How long will the survey take?	About 5 minutes	About 10 minutes per person				
What is the survey about?	We ask you about your household and the vehicles you use.	Return to the website (or call) to tell us about the details for all the trips you made on your assigned travel date. (Use your Travel Log to keep track!)				

After completing both parts, your household will receive your choice of an Amazon.com or Starbucks gift card.





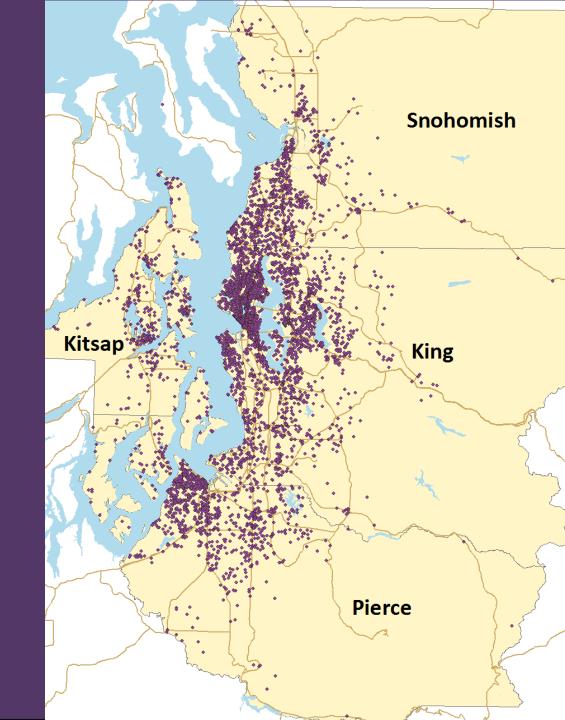




Personal — 🗆 X

Surveyed Households

- <u>6,094</u> households (goal was 5,200)
- 1,137 households in regional centers (19%)
- Exceeded every target metric in every county
- Deliberately oversampled households with no vehicles
- Deliberately oversampled1 and 2 person households
- 50,856 total trips recorded



Cleaning Process

Bad or duplicate records removed

hhid	pern um	tripn um	place_start	place_end	denty	dcity	dzip	time_st	time_e	trip_ dur	gdist	a_dur	d_pur pose
14104011	1	1	HOME	I STARTED MY DAY AT HOME	1	SEATTLE	98122	11:15	11:50	35	0	0	6
14104011	1	2	I STARTED	NORTH SEATTLE CC	1	SEATTLE	98103	11:50	12:25	35	7.09	205	6
14104011	1	3	NORTH SEA	HALF PRICE BOOKS	1	SEATTLE	98105	15:50	16:25	35	3.18	0	5
14104011	1	4	HALF PRICE	FRIENDS HOUSE	1	SEATTLE	98102	16:25	17:15	50	3.79	0	12

place_start	place_end	denty	dcity	dzip	time_st	time_e	trip_ dur	gdist	a_dur	d_pur pose
HOME	DICK'S DRIVE-IN	1	SEATTLE	98102	19:00	19:20	20	0.54	5	11
DICK'S DRI	THEN I WENT HOME) 1	SEATTLE	98109	19:25	19:40	15	0.86	0	1
THEN I WE	HOME	1	SEATTLE	98109	19:40	19:45	5	0	435	1

hhid	pern um	tripn um	place_start	place_end	denty	dcity	dzip	time_st art	time_e nd	trip_ dur	gdist	a_dur	d_pur pose
14100123	2	5	LUNCH	WORKPLACE	1	SEATTLE	98109	13:55	14:10	15	0.25	130	2
14100123	2	6	WORKPLAC	STARBUCKS	1	SEATTLE	98109	16:20	16:25	5	0.26	15	11
14100123	2	7	STARBUCKS	WORKPLACE	1	SEATTLE	98109	16:40	16:45	5	0.13	15	2
14100123	2	8	WORKPLAC	PICKUP AT WORK	1	SEATTLE	98109	17:00	17:05	5	0	0	9
14100123	2	9	PICKUP AT	HOME	1	SEATTLE	98109	17:05	17:20	15	0.9	580	1

Cleaning Process

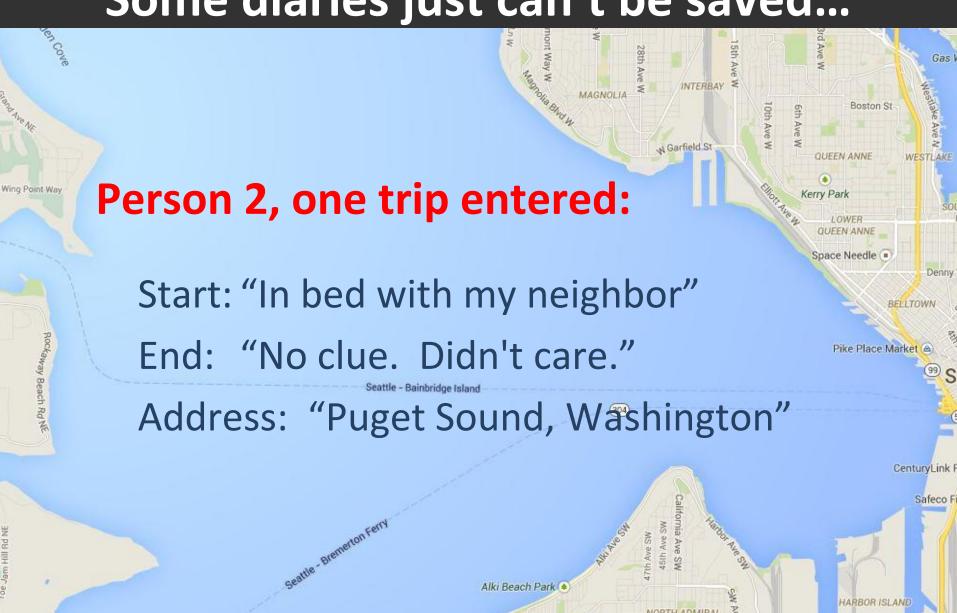
Missing trips added

hhid	pern um	tripn um	place_start	place_end	denty	dcity	dzip	time_st	time_e	trip_ dur	gdist	a_dur	d_pur pose
14100245	3	5	LOWE'S	RESIDENCE	2	PORT ORC	98366	13:00	13:30	30	2.23	195	3
14100245	3	6	RESIDENCE	DAYCARE	3	PUYALLUP	98373	16:45	17:15	30	37.96	5	9
14100245	3	7	DAYCARE	HOME	3	PUYALLUP	98374	17:20	17:30	10	3.98	570	1
14100245	4	1	HOME	DAYCARE	3	PUYALLUP	98373	7:00	7:10	10	3.98	1190	6

hhid	pern um	tripn um	member3	member4
14100245	3	5	1410024503	
14100245	3	6	1410024503	
14100245	3	7	1410024503	1410024504
14100245	4	1	1410024503	1410024504

hhid	pern um	tripn um	place_start	place_end	donty	dcity	dzip	time_st	time_e nd	trip_ dur	gdist	a_dur	d_pur pose
14100245	3	5	LOWE'S	RESIDENCE	2	PORT ORC	98366	13:00	13:30	30	2.23	195	3
14100245	3	6	RESIDENCE	DAYCARE	3	PUYALLUP	98373	16:45	17:15	30	37.96	5	9
14100245	3	7	DAYCARE	HOME	3	PUYALLUP	98374	17:20	17:30	10	3.98	570	1
14100245	4	1	HOME	DAYCARE	3	PUYALLUP	98373	7:00	7:10	10	3.98	1190	6
14100245	4	2	DAYCARE	HOME	3	PUYALLUP	98374	17:20	17:30	10	3.98	570	1

Some diaries just can't be saved...



- Background & methodology
- Data & Findings
- Coming up next

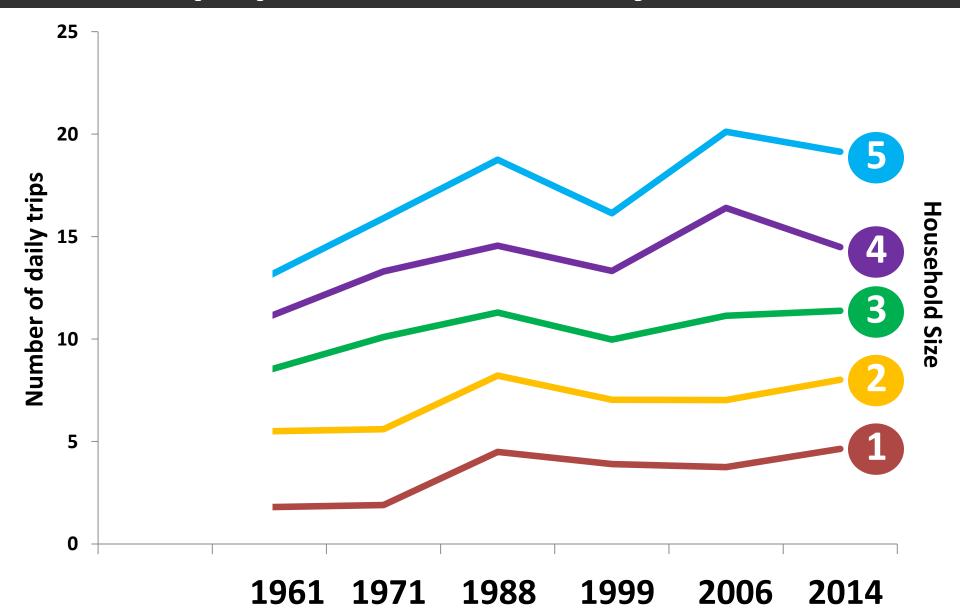


The Big Picture

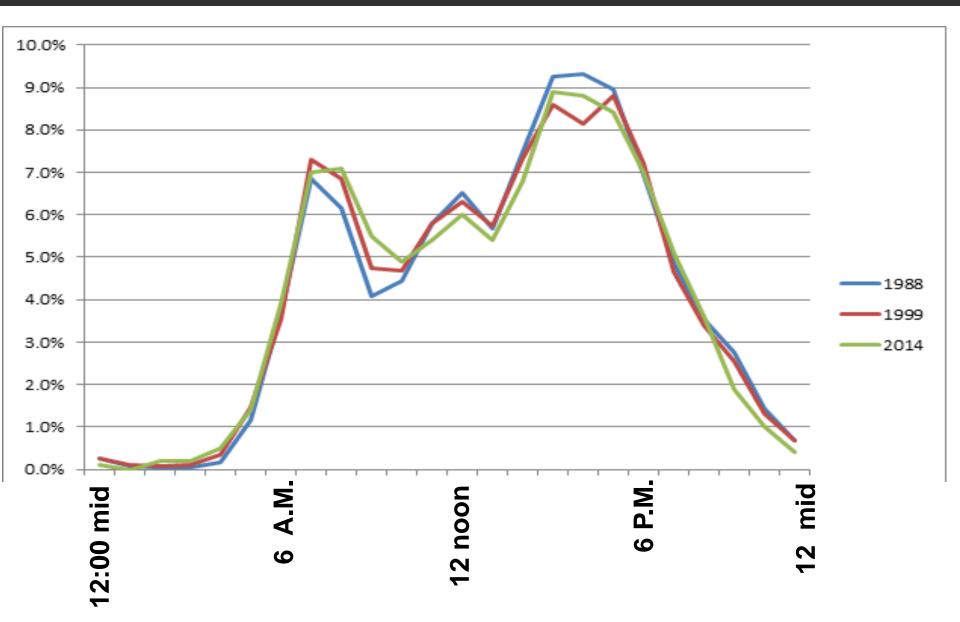
Our region is changing in some notable ways, but has remained very much the same in most others.

The rate of change is gradual, but is faster in regional growth centers and in core parts of Seattle.

Trips per household, by HH size



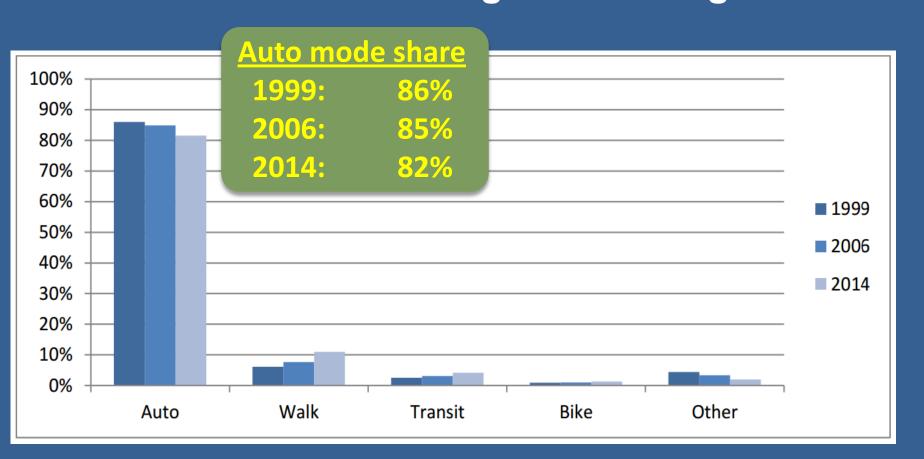
Trips by time of day



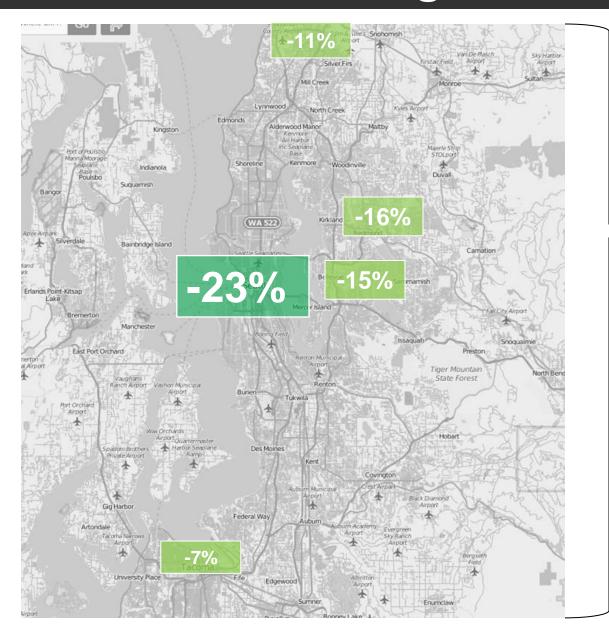
Mode Share

Transit and bike/walk mode share are all up at the expense of driving...

...but the rate of that change has been gradual:



Decrease in Driving Shares 2006 - 2014



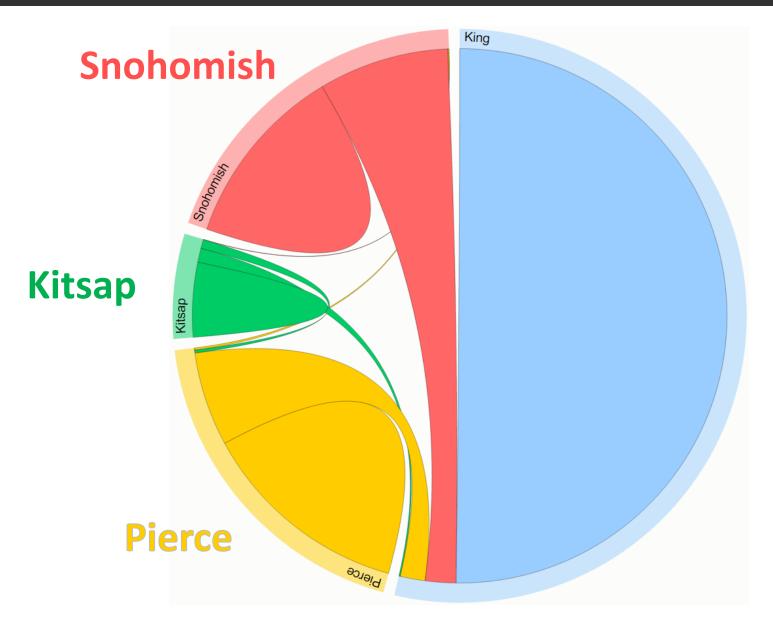
Region:

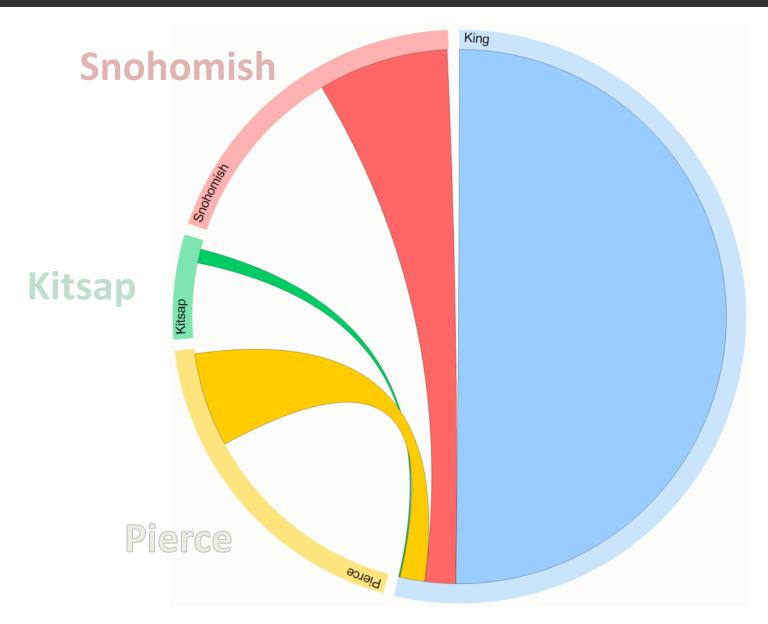
-3%

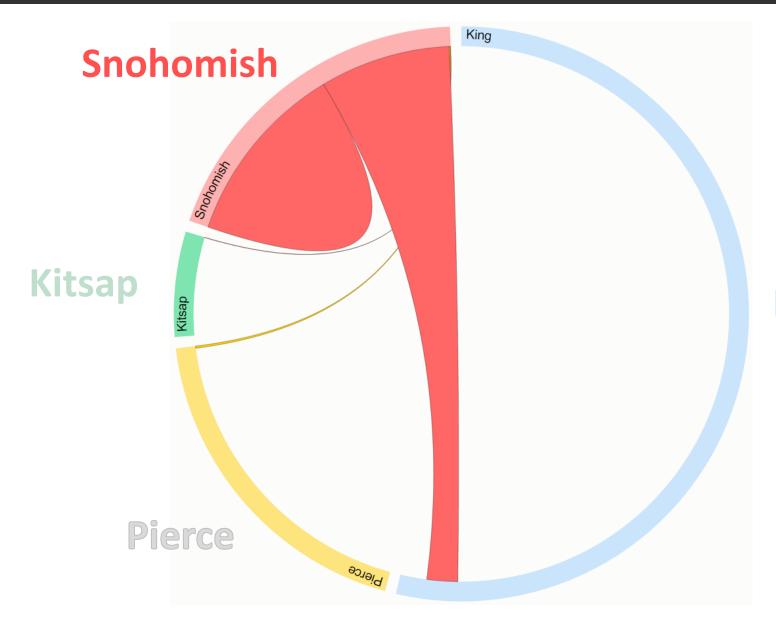
1999	Home County							
Work County	King	Kitsap	Pierce	Snohomish				
King	93.3%	18.7%	23.4%	31.4%				
Kitsap	0.0%	75.2%	1.3%	0.1%				
Pierce	1.8%	2.1%	72.1%	0.4%				
Snohomish	4.4%	2.5%	0.4%	67.3%				
Other WA County	0.4%	1.6%	2.9%	0.9%				

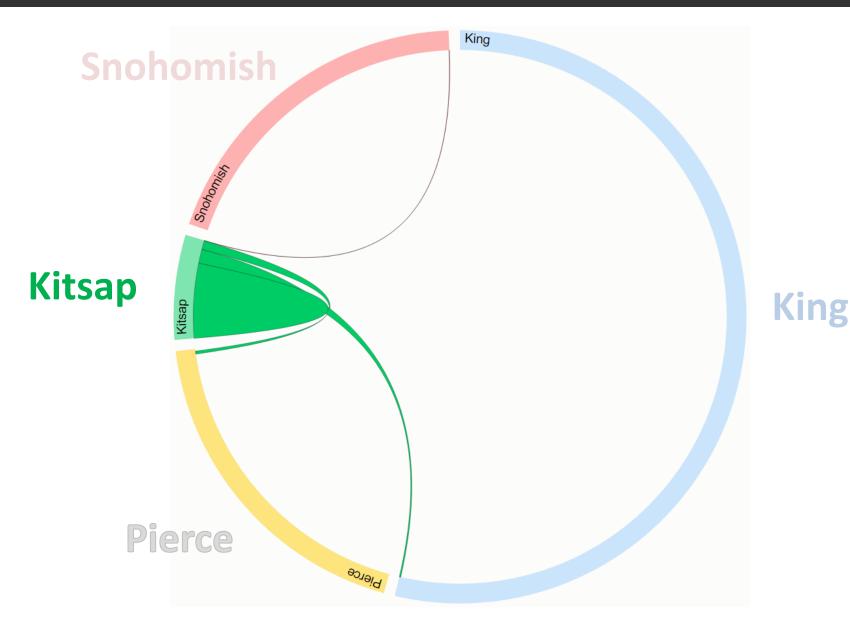
2006	Home County							
Work County	King	Kitsap	Pierce	Snohomish				
King	90.2%	30.1%	36.9%	41.1%				
Kitsap	0.3%	56.7%	1.3%	0.6%				
Pierce	2.1%	7.7%	54.5%	2.6%				
Snohomish	4.5%	0.5%	2.8%	51.1%				
Other WA County	2.9%	5.1%	4.5%	4.5%				

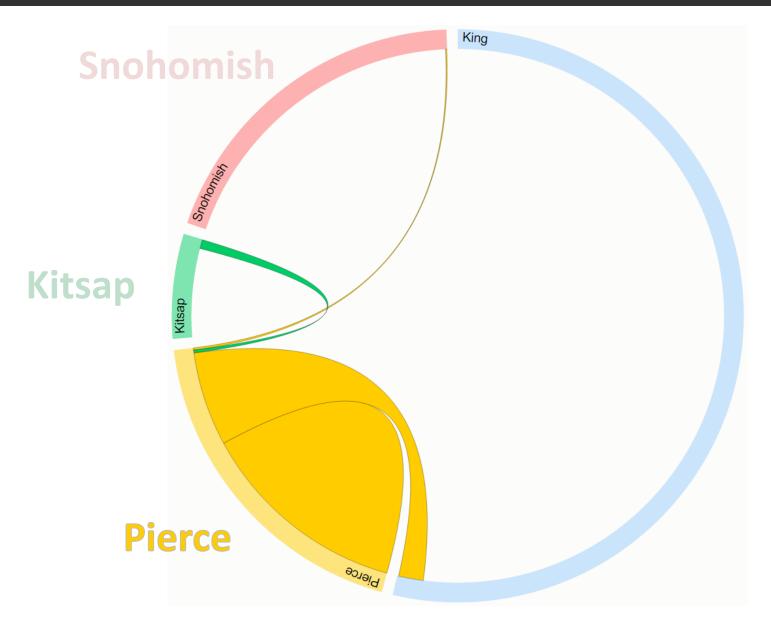
2014	Home County								
Work County	King	Kitsap	Pierce	Snohomish					
King	93.4%	14.0%	28.7%	40.6%					
Kitsap	0.2%	74.6%	0.9%	0.1%					
Pierce	2.8%	9.0%	64.6%	0.4%					
Snohomish	3.5%	0.3%	0.7%	57.4%					
Other WA County	0.2%	2.1%	5.2%	1.5%					



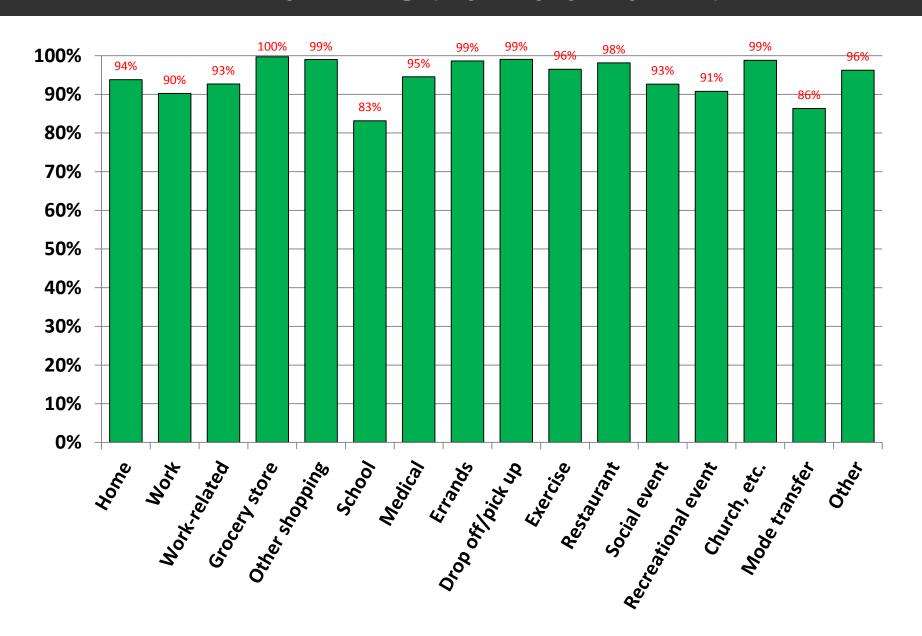




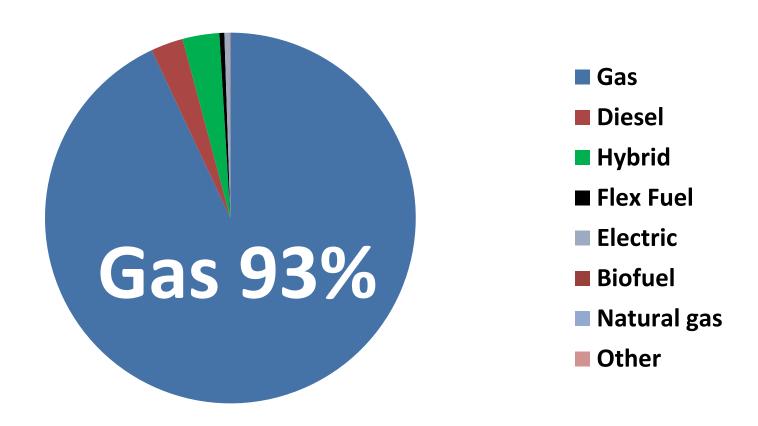




Free parking (by trip purpose)



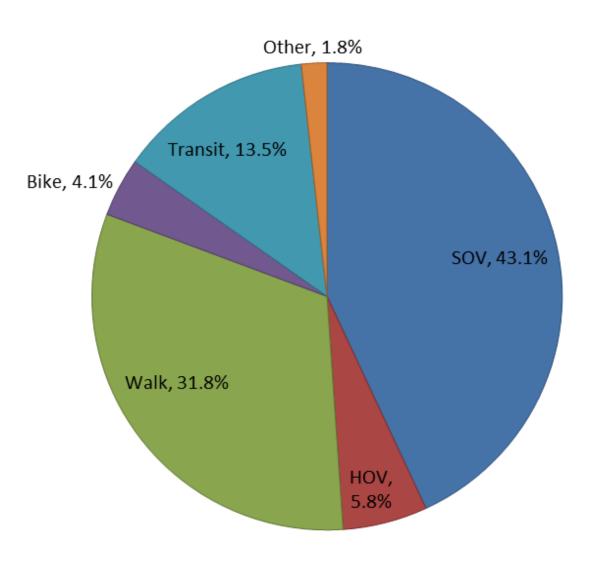
Vehicle Fuel Type



Highest Hybrid Share: 5%, on the East Side

• Highest Diesel Share: 4%, in South Pierce

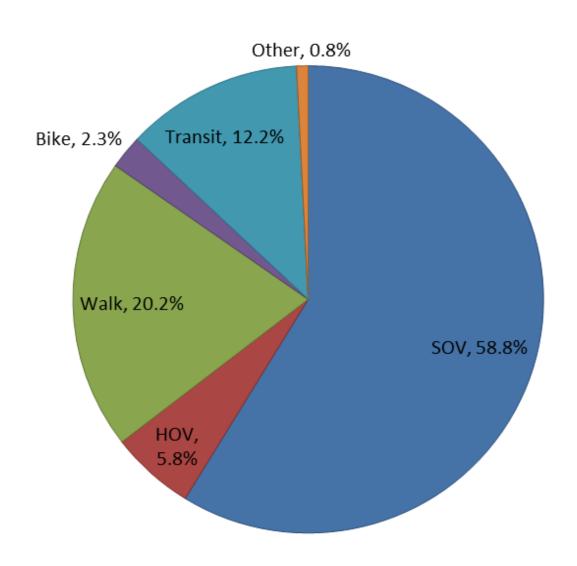
Trip Mode: Single + Millennial*



Drive Alone: 43%

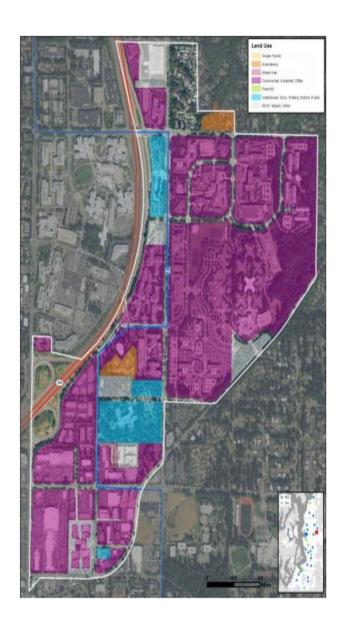
Walk: 32%

Trip Mode: Single + GenX / Boomers*

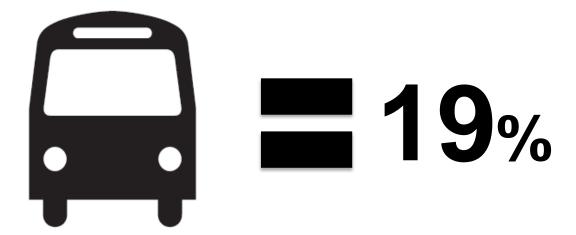


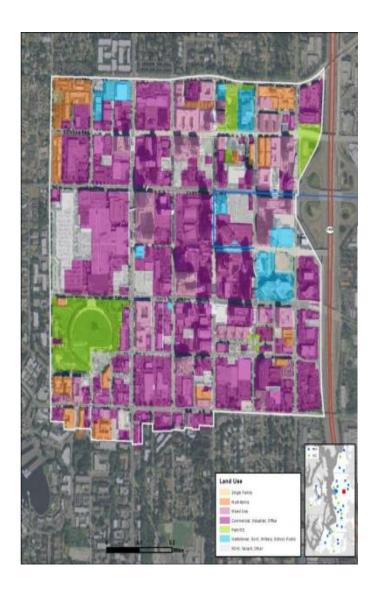
Drive Alone: 59%

Walk: 20%

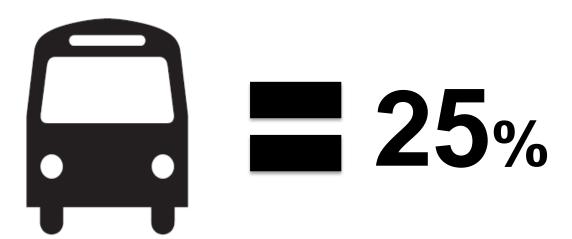


Redmond Overlake





Downtown Bellevue



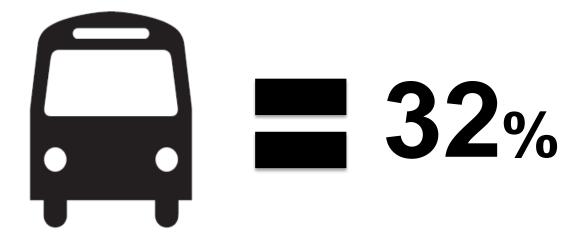


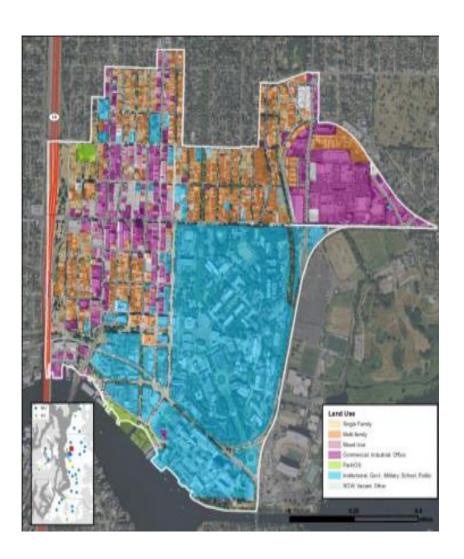
South Lake Union



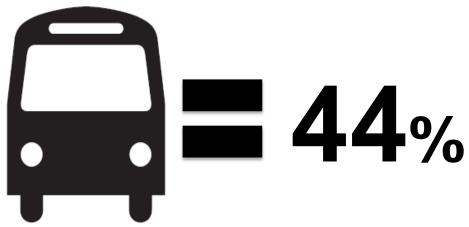


Capitol Hill & First Hill



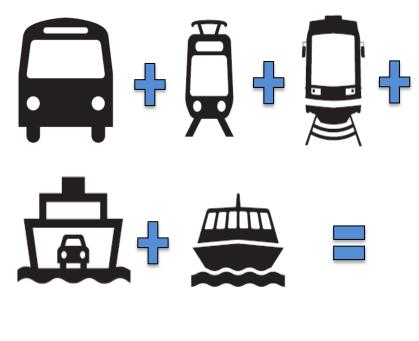


University District





Downtown Seattle



54%

- Background & methodology
- Data & findings
- Coming Up Next



College/University Survey

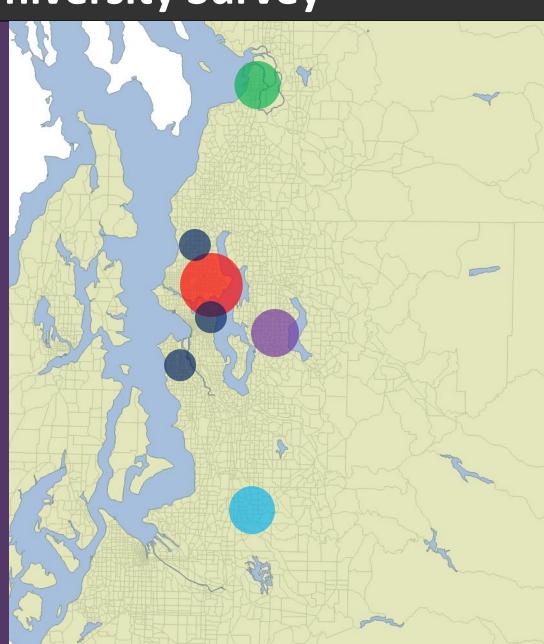
University of Washington Montlake Campus

Everett Community College

Seattle Colleges (3 campuses)

Bellevue College

Green River Community College



2015 Household Survey!

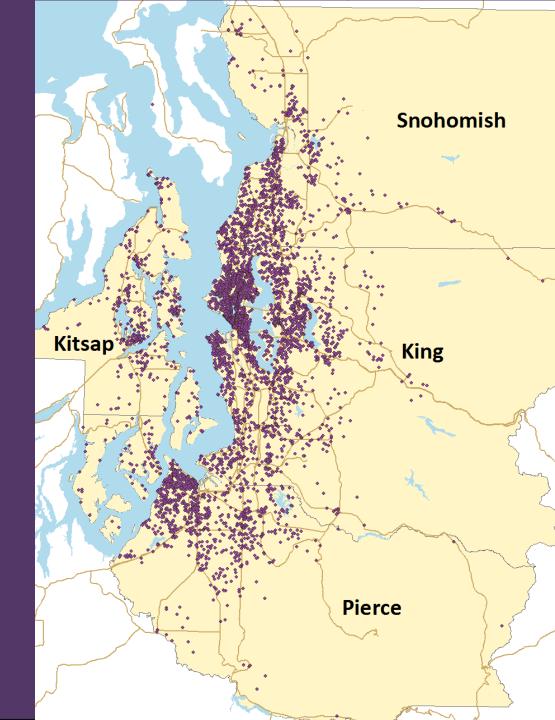
• Goal of 1,200 households

• 50% "panel survey" – asking the same households the same questions

• 50% new households

 Plus, a pilot study of smartphone-based data collection

Happening <u>right now</u>



Every 8 years? How about 2?

More frequent data collection is coming. **2015 2017**

Data Availability

Public Release 2: available now

http://www.psrc.org/data/transportation

All data, stripped of confidential information

Weighting and linking documents

Survey instruments

Public Release 3: this June

Refined transit access modes

Trips stitched into round-trip "tours" for travel modeling



Thank You!

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PSRC data portal: http://www.psrc.org/data

Puget Sound Regional Council
PSRC